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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/720,645	10/720,645 11/24/2003		Jong-Ho Lee	SWO-0005	4692	
23413	7590	03/14/2005		EXAMINER		
CANTOR		•	RAO, G NAGESH			
55 GRIFFIN BLOOMFII				ART UNIT	PAPER NUMBER	
	,	•		. 1722		
				DATE MAILED: 03/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan.	10/720,645	LEE, JONG-HO					
Office Action Summary	Examiner	Art Unit					
	G. Nagesh Rao	1722					
The MAILING DATE of this community Period for Reply	inication appears on the cover she	et with the correspondence ac	ddress				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU! - Extensions of time may be available under the provisio after SIX (6) MONTHS from the mailing date of this cor - If the period for reply specified above is less than thirty - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no event, however, annunication. (30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (6 bly will, by statute, cause the application to become after the mailing date of this communication, and the status of the communication, and the status of the communication, and the status of the status of the communication.	nay a reply be timely filed of thirty (30) days will be considered time b) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) f	iled on						
2a) This action is FINAL.	2b)⊠ This action is non-final.	•					
3) Since this application is in condition	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the prac	ctice under <i>Ex parte Quayle</i> , 1935	5 C.D. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1 and 2 is/are pending in	the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-2</u> is/are rejected.	• • • • • • • • • • • • • • • • • • • •						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to rest	riction and/or election requiremen	ıt.					
	notion and/or election requiremen	ι.					
Application Papers							
9) The specification is objected to by the Examiner.							
• • • • • • • • • • • • • • • • • • • •	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	to by the Examiner. Note the atte	teried Office Action of Tollier	10 102.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
· ·	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
occ the attached detailed office act	ion to a not of the octanica copie.	, 1151 1555145G.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		view Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review	· · · · · · · · · · · · · · · · · · ·	er No(s)/Mail Date ce of Informal Patent Application (PT	·O-152)				
3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date	o	er:	J 102,				

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1. Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Figure 4 of admitted prior art by the applicant in view of Yasoda (US 6,722,245 B2).

As shown by the applicant's admission of prior art in Figure 4, there enclosed is a drawing of a conventional molding apparatus (Page 5 of applicant's specification). The figure 4 drawing shows a frame (111), a die (121), a stripper (141), a punch holder (151), a press slide (171), and a rotational servo motor (175).

The admitted prior art however lacks the specific teaching of replacing the rotational servo motor with a linear motor.

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In an apparatus dealing with a pressing function, Yasoda 245 teaches a punching unit apparatus used for boring a pattern or hole into a material that easily spreads when a pressing force is applied. It is taught that the punching die's driving source is operated through an electric motor. The likes of this motor could be a servo, linear, stepping motor, or the likes of one (Column 2 Lines 19-26).

Therefore it would be obvious to one skilled in the art of press molding to substitute the likes of a servo motor with a linear motor, since they are seen as equivalent means for electro-mechanically driving the apparatus.

Furthermore it would then be an expected result to one skilled in the art to have to include a linear joint block, when replacing the servo motor with a linear motor, in order for the motor to have proper communication with the die, due to the motor's method of function.

2. Claim 2 rejected under 35 U.S.C. 103(a) as being unpatentable over Figure 4 of admitted prior art by the applicant in view of Yasoda (US 6,722,245 B2) in further view of Naito (US 4,977, 804).

With respect to claim 2, the aforementioned arguments apply. However they fail to teach the need for holes for discharging scrap material.

In a punch press apparatus, Naito 804 explains that it is known to want to discharge materials after being punched out by a die (Column 1 Lines 13-25).

Therefore it would be obvious to one skilled in the art of press molding involving a punch and die, to have a means such as a hole for discharging the scrap material punched out by the die. This would prevent clogging of material and speed up processing time, rather than having to open the machine to remove the scrap and then restart on a new piece of material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Utech can be reached on (571) 272-1137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GNR

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